Nithish SureshBabu

Lynnwood, WA

(206) 226-8935 | nithish952001@gmail.com | linkedin-nithish-suresh-babu

nithish-95 | nithish.net

SUMMARY

Software Engineer specializing in full-stack development and scalable system design, with a focus on AI integration and real-time systems. Recognized for delivering impactful projects such as a low-latency chat platform and an AI-enhanced fish encyclopedia app increasing user engagement by 30%. Proficient in Go, Python, and AWS, eager to leverage skills to drive technological innovations in the healthcare or startup ecosystems. Committed to contributing to forward-thinking teams to achieve cutting-edge advancements.

EDUCATION

University of Michigan   **Aug 2023 - Apr 2025**
Master of Science, Computer and Information Science (GPA: 3.8)   *Michigan, USA*

Anna University   **Jul 2018 - May 2022**
Bachelor of Technology, Computer Science and Engineering (GPA: 3.4)   *Chennai, INDIA*

EXPERIENCE

Central Marine Fisheries Research Institute   **Jan 2025 - Jul 2025**
Software Developer

- Developed and maintained full-stack web and mobile applications using Vue.js, Flutter, and Go, enabling over 100 researchers and students to access real-time marine data even under low connectivity conditions.
- Implemented robust data synchronization protocols that automatically updated databases as connectivity was re-established, ensuring continuous and reliable data access.

University of Michigan - Deep Fake Research Lab   **Sep 2024 - Dec 2024**
Research Assistant - GenAI (Volunteer)

Collaborated with academic experts to design and validate deepfake detection models using TensorFlow, achieving 88.37% accuracy by benchmarking 8 models across diverse Gen-AI image generation datasets.

- Utilized advanced machine learning techniques to refine model performance and contributed to research advancements in AI-driven security.

University of Michigan - Digital Forensics Course   **Aug 2024 - Dec 2024**
Computer Science Grader

Assessed student projects and provided constructive feedback on digital forensics and coding principles, reinforcing robust software development practices.

- Collaborated with instructors to refine course materials, fostering an agile learning environment and enhancing students' practical application skills.

PROJECTS

College Event Management App | localVibes web v0.1   **Jul 2025 - Present**

- Streamlined event coordination for college students by building a Event Hosting full-stack web application using Vue.js, Go with Chi, and PostgreSQL with real-time group chat creation, achieving positive feedback from 20+ beta testers and boosting campus engagement.

Chat Application | chat-webapp   **Jan 2024 - Apr 2024**

- Designed a scalable chat platform for an Advanced OS course project inspired by Discord using Go, WebSockets, and implementing consistent hashing and rate limiting across 8 nodes, which enabled real-time communication for 30+ testers and demonstrated potential to scale to 2,500+ users. deployed on AWS with Docker and CI/CD, supporting clients with low as 10ms latency and 40% faster deployment.

Tweets Sentiment Analysis   **Feb 2024 - May 2024**

- Developed a high-performance sentiment analysis engine for an Introduction to Big Data course by leveraging Llama-2, LangChain, Apache Spark, and AWS to process 10,000+ tweets/hour with 92.2% accuracy, delivering real-time insights via a responsive dashboard and reducing processing time by 30%.

SKILLS

- **Languages:** Go, Python, JavaScript, TypeScript, C++
- **Full Stack:** Full-stack Web Development, Go Chi, FastAPI, Tailwind CSS, RESTful APIs, Flutter, React Native, Vue.js, Next.js, gRPC, Angular
- **Cloud & Tools:** AWS, Google Cloud, Docker, Kubernetes, Git
- **DevOps & Agile:** CI/CD Pipelines, Agile Practices
- **AI/ML:** PyTorch, TensorFlow, LangChain, AWS Rekognition
- **Databases:** PostgreSQL, DynamoDB, SQLite, S3, Redis
- **Systems:** System design, Operating System, Performance optimization, debugging, large-scale design, Distributed Systems

AWARDS AND RECOGNITIONS

- **People's Choice of the Year, Google Developer's Club (GDC), 2025** | Awarded for developing an AI-powered Insurance Quoting Call Agent with natural speech and advanced conversation handling.
- **Top 80 in National Wide - India, Vishwakarma Award, 2020** | Recognized for innovative technical project in a nationwide competition.